Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1 - 15. (Cancelled)

16. (Currently Amended) A process for preparing ~~isocyanoatoorganosilanes~~ isocyanatoorganosilanes by thermolysis of carbamatoorganosilanes, wherein the thermolysis takes place with exposure to microwave radiation.

17. (Currently Amended) The process of claim 1, wherein ~~isocyanoatoorganosilanes~~ isocyanatoorganosilanes of the formula (1) are prepared

$$R^2R^3R^4Si\text{-}R^1\text{-}N{=}C{=}O \qquad (1),$$

where

R is a monovalent C_1-C_{10}-alkyl radical,

R^1 is a divalent C_1-C_6-hydrocarbon radical and

R^2, R^3 and R^4 are in each case independently of one another, a methyl, ethyl, n-propyl, isopropyl, methoxy, ethoxy, n-propoxy or isopropoxy radical,

by thermolysis of carbamatoorganosilanes of the formula (2)

$$R^2R^3R^4Si\text{-}R^1\text{-}NH\text{-}CO\text{-}OR \qquad (2).$$

18. (Previously Presented) The process of claim 16, wherein the thermolysis takes place in the presence of a catalyst.

19. (Currently Amended) The process of claim 17, wherein ~~the thermolysis takes place in the presence of a catalyst~~ no catalyst is present.

20. (Previously Presented) The process of claim 18, wherein the catalyst is a homogeneous catalyst.

21. (Previously Presented) The process of claim 20, wherein the catalyst comprises one or more compounds selected from the group consisting of soluble compounds of tin, lead, cadmium, antimony, bismuth, titanium, zirconium, niobium, iron, cobalt, manganese, chromium, molybdenum, tungsten, nickel, copper, zinc, and soluble organic nitrogen bases.

22. (Previously Presented) The process of claim 20, wherein the catalyst comprises one or more compounds selected from the group consisting of 1,4-diazabicyclo[2.2.2]octane, dibutyltin dilaurate, dibutyltin maleate, dibutyltin diacetate and dimethyltin dichloride.

23. (Previously Presented) The process of claim 18, wherein the catalyst is a heterogeneous catalyst.

24. (Previously Presented) The process of claim 23, wherein the catalyst comprises a metal or compound thereof, the metal selected from the group consisting of Sn(I), Sn(II), Pb(II), Zn(II), Cu(I), Cu(II), Co(I), Co(II), Na, K, Li, Rb, Cs, Sr, Ba, Mg, Ca, Cr, Mo, Ti, V, W, Ce, Fe, Ni, Si, Al, Ge, Ga, In, Sc, Y, La and lanthanides, Pd, Pt, Co, Rh, Cu, Ag, Au, Zn, Cr, Mo, W, Cd, Fe, N, O, B, C, and mixtures and alloys containing the abovementioned elements.

25. (Previously Presented) The process of claim 23, wherein the catalyst comprises at least one oxide, hydroxide, oxyhydroxide, mixed oxide, acetate, formate, oxalate,

tartrate, citrate, nitrate, carbonate, or mixtures of the above-mentioned compounds, of one or more elements selected from the group consisting of Sn(I), Sn(II), Pb(II), Zn(II), Cu(I), Cu(II), Co(I), Co(II), Na, K, Li, Rb, Cs, Sr, Ba, Mg, Ca, Cr, Mo, Ti, V, W, Ce, Fe, Ni, Si, Al, Ge, Ga, In, Sc, Y, La and lanthanides, Pd, Pt, Rh, Ag, Au and Cd.

26. (Previously Presented) The process as claimed in claim 23, wherein the catalyst comprises one or more compounds selected from the group consisting of TiO_2, ZrO_2, HfO_2, Al_2O_3, BaO, CaO, MgO, CeO_2, La_2O_3, Y_2O_3, Sm_2O_3, Yb_2O_3, Cr_2O_3, ZnO, V_2O_4, MnO_2, NiO, In_2O_3, Ga_2O_3, GeO_2, FeO, Fe_2O_3, Fe_3O_4, CuO, Co_3O_4, $Fe(MoO_4)_3$, MgO/CsOH, MgO/NaOH, aluminosilicates, zeolites, cordierite of the composition $2MgO{\cdot}2Al_2O_3{\cdot}5SiO_2$, heteropolyacids, carbon, transition metal nitrides, transition metal borides, transition metal silicides and carbides.

27. (Previously Presented) The process of claim 23, wherein the catalysts are provided on a support.

28. (Previously Presented) The process of claim 27, wherein as a catalyst support, an inert refractory material is employed.

29. (Previously Presented) The process of claim 26, wherein as a catalyst support, oxidic and nonoxidic ceramics, SiO_2, carbon, aluminosilicates, magnesium aluminosilicates or resistant metallic materials are used.

30. (Previously Presented) The process of claim 26, wherein catalyst supports are in the form of irregular granules, spheres, rings, half-rings, saddles, cylinders, trilobes, or monoliths.

31. (Previously Presented) The process of claim 16, wherein a gas-phase reactor containing a heterogeneous catalyst is located downstream of the microwave reaction chamber.